

HAWAII, ISLAND OF OAHU

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16226200 NORTH HALAWA STREAM NEAR HONOLULU

LOCATION.--Lat 21°23'04", long 157°54'22", Old Hawaiian Datum, Hydrologic Unit 20060000, on right bank, 0.5 mi north of Halawa quarry, 1.7 mi east of Aiea High School, and 1.9 mi east of Aiea.

DRAINAGE AREA.--4.01 mi².

PERIOD OF RECORD.--February 1983 to current year.

REVISED RECORD.--WDR HI-05-1: 2004(M).

GAGE.--Water-stage recorder. Elevation of gage is 160 ft above mean sea level (from topographic map).

REMARKS.--Records computed by S.T.M. Young. Records good, except for estimated days which are poor.

AVERAGE DISCHARGE.--22 years (water years 1984-2005), 4.97 ft³/s (3,600 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, August 4, 2004, gage height, 12.33 ft; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

Date	Time	Discharge	Gage height	Date	Time	Discharge	Gage height
		(ft ³ /s)	(ft)			(ft ³ /s)	(ft)
Nov 7	0300	711	*10.28	Feb 11	1935	*851	10.60
Jan 29	1445	766	10.41				

Minimum discharge, no flow on many days.

REVISIONS.--The maximum discharge for water year 2004 was not included in the data report for that year. The maximum discharge is 2,030 cfs, August 4, gage height 12.33 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.18	13	11	55	3.5	0.11	10	0.02	0.09	0.09	0.42	0.00
2	3.7	3.6	6.5	66	9.7	0.09	5.6	0.01	0.24	0.07	0.20	0.00
3	1.6	1.6	3.8	9.3	9.6	0.08	4.0	0.02	0.09	0.08	0.22	0.01
4	0.52	16	2.3	4.1	81	0.07	3.2	0.02	0.08	0.03	0.15	0.18
5	0.19	43	1.9	2.4	20	0.06	3.4	0.01	0.06	0.09	0.11	0.24
6	0.28	49	1.3	1.6	7.0	0.06	3.1	0.01	0.06	0.04	0.08	0.08
7	2.6	72	1.7	0.84	3.7	0.06	3.1	0.01	0.09	0.02	0.07	0.03
8	1.4	10	2.8	0.46	2.2	1.0	4.7	0.00	0.02	0.52	0.05	0.13
9	0.32	4.3	1.7	25	1.3	25	4.3	0.01	0.02	2.5	3.8	0.18
10	0.18	2.3	1.0	4.9	0.74	5.3	2.4	0.01	0.16	5.9	0.42	0.56
11	0.14	1.3	0.46	2.6	29	1.9	1.7	0.00	0.20	12	0.38	0.11
12	0.11	0.64	0.29	1.6	39	6.9	0.63	0.00	0.06	39	0.16	0.09
13	0.11	1.8	0.22	1.4	9.2	3.0	0.32	0.00	2.5	8.9	0.11	1.3
14	0.10	156	0.19	2.9	4.4	1.1	0.17	0.00	0.22	3.3	0.07	12
15	0.09	56	0.16	e2.9	2.6	0.47	0.15	0.00	0.08	1.7	0.05	27
16	0.07	48	0.13	e2.1	1.5	0.22	0.15	0.00	0.07	1.5	0.04	28
17	0.06	34	0.11	e17	0.86	0.15	0.18	0.00	0.07	0.96	0.03	7.3
18	0.11	13	0.10	e28	0.50	0.12	0.11	0.00	0.03	0.33	0.02	2.8
19	0.11	5.5	0.10	e7.7	0.33	0.11	0.08	3.6	0.37	0.21	0.02	1.5
20	0.09	3.2	0.10	e3.8	0.25	0.10	0.07	0.13	4.7	0.17	0.01	1.4
21	0.04	2.2	0.14	e2.5	0.20	0.09	0.05	28	3.3	0.59	0.01	1.2
22	0.03	1.6	5.6	e1.9	0.18	0.07	0.04	16	1.5	0.39	0.00	2.1
23	0.07	6.0	3.0	e1.4	0.18	0.07	0.03	6.4	1.2	2.1	0.00	34
24	0.30	1.6	1.9	e1.0	0.31	0.06	0.02	2.2	1.2	1.4	0.00	9.3
25	2.5	8.6	1.4	e0.88	0.17	0.19	0.02	0.44	1.3	0.46	0.01	2.5
26	3.9	2.8	0.49	e0.66	0.20	19	0.02	0.16	0.28	0.18	0.01	2.1
27	3.5	1.4	26	e1.1	0.71	4.4	0.02	0.42	0.30	0.13	0.00	0.67
28	1.0	32	29	e0.46	0.17	4.1	0.02	0.16	0.12	11	0.00	0.85
29	0.45	32	5.5	e36	---	58	0.02	0.08	0.14	11	0.00	0.86
30	32	21	2.7	e8.7	---	17	0.02	0.05	0.13	2.7	0.00	82
31	59	---	2.1	e3.5	---	4.4	---	0.14	---	1.1	0.00	---
TOTAL	114.75	643.44	113.69	297.70	228.50	153.28	47.62	57.90	18.68	108.46	6.44	218.49
MEAN	3.70	21.4	3.67	9.60	8.16	4.94	1.59	1.87	0.62	3.50	0.21	7.28
MAX	59	156	29	66	81	58	10	28	4.7	39	3.8	82
MIN	0.03	0.64	0.10	0.46	0.17	0.06	0.02	0.00	0.02	0.02	0.00	0.00
AC-FT	228	1,280	226	590	453	304	94	115	37	215	13	433

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	3.25	7.84	7.88	7.41	4.66	7.60	5.87	3.05	1.76	3.48	2.80	2.88
MAX	9.71	29.1	40.6	29.6	17.4	31.0	35.3	15.5	7.84	15.0	11.7	12.6
(WY)	(1992)	(1997)	(1988)	(1988)	(1989)	(1991)	(1989)	(1988)	(1987)	(1989)	(2004)	(1992)
MIN	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1985)	(1990)	(1990)	(1986)	(1983)	(1983)	(1983)	(1992)	(1984)	(1984)	(1984)	(1984)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	3,362.35		2,008.95			
ANNUAL MEAN	9.19		5.50		4.97	
HIGHEST ANNUAL MEAN					10.1	1988
LOWEST ANNUAL MEAN					1.43	1984
HIGHEST DAILY MEAN	217	Aug 4	156	Nov 14	476	Mar 24, 1994
LOWEST DAILY MEAN	0.03	Oct 22	0.00	May 8	0.00	Feb 1, 1983
ANNUAL SEVEN-DAY MINIMUM	0.07	Oct 16	0.00	May 11	0.00	Feb 1, 1983
ANNUAL RUNOFF (AC-FT)	6,670		3,980		3,600	
10 PERCENT EXCEEDS	21		14		10	
50 PERCENT EXCEEDS	1.8		0.49		0.40	
90 PERCENT EXCEEDS	0.13		0.02		0.00	

e Estimated